

Claims

1. Operating unit for at least one electrophotographic printing or copying system
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with a display unit on which a graphical user interface (10, 64, 100, 152) is displayed that comprises a graphical representation (74, 76, 78, 82) of at least one setting value of a print image parameter or machine parameter of a printing unit of the printing or copying system,
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whereby at least the setting value (74, 76, 78, 82) can be input with the aid of the user interface (10, 64, 100, 152).
2. Operating unit according to claim 1, characterized in that the amount of the
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setting value can be input and output.
3. Operating unit according to claim 1 or 2, characterized in that the setting
value (74, 76, 78) concerns the contrast, the brightness, the fixing oil
quantity, paper parameters and/or a print marker position of the printing
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units.
4. Operating unit according to any of the preceding claims, characterized in
that the setting value can be input and output with the aid of shown figures
(122, 124), with the help of a graphical slide control (74, 76, 78) and/or
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with the help of a circle diagram.
5. Operating unit according to claim 4, characterized in that the current setting
value of the slide control (74, 76, 78) is displayed on a scale of the slide
control (74, 76, 78) with the aid of a scale pointer (80, 84), whereby the
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scale point (80, 84) can be shifted with the aid of an input device that can
be increased and reduced in steps via graphical function keys (114, 116)

5 given the representation of the setting value with the aid of figures of the amount of the setting value, and that the amount of the setting value output with the aid of the circle diagram can be changed by shifting the position of a setting marker arranged on the circle diagram and/or via the input via graphical function keys (114, 116).

6. Operating unit according to any of the preceding claims, characterized in that the setting value is shown as a bar or symbol graphic, whereby the setting value can be changed via a figure input and/or via graphical function data, and whereby the bar or symbol graphic is changed dependent on the input value.

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7. Graphical user interface for operation of an electrophotographic printing or copying system

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with a graphical representation (74, 76, 78, 82, 122) of at least one setting value of a print image parameter or machine parameter of a printing unit of the printing or copying system,

20 whereby at least the amount of the setting value can be input with the aid of the user interface (10, 64, 100, 154).

8. Method for operation of at least one electrophotographic printing or copying system,

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in which at least one setting value of a print image parameter or machine parameter of a printing unit of the printing or copying system is displayed via a graphical user interface (10, 64, 100, 152) with a graphical representation (74, 76, 78, 82, 122),

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and in which at least the setting value (74, 76, 78, 80 [sic], 122) is input via the user interface (10, 64, 100, 152).

5 9. Method according to claim 8, characterized in that repeatedly-used setting values are stored by the operating unit, whereby these repeatedly-used setting values serve as scale values for partitioning of a scale of a graphical slide control (74, 76, 78) or of a circle diagram.

10 10. Operating unit for at least one electrophotographic printing or copying system

with a display unit on which a graphical user interface (10, 64, 100, 152) is displayed that comprises a graphical representation (74, 76, 78, 82) of at least one setting value of a print image parameter or machine parameter of a printing unit of the printing or copying system,

whereby the graphical user interface (10, 64, 100, 152) comprises a graphical representation (86, 88) of the amount of the same setting value of a second printing unit of the printing or copying system, and

20 whereby at least the amount of the setting value (74, 76, 78) of the first printing unit can be input with the aid of the user interface (10, 64, 100, 152).

25 11. Operating unit according to claim 10, characterized in that the setting value (74, 76, 78) concerns the contrast, the brightness, the fixing oil quantity, paper parameters and/or a print marker position of the printing units.

30 12. Operating unit according to claim 10 or 11, characterized in that the graphical representation of the setting value can be input and output with

the aid of shown figures (122, 124), with the help of a graphical slide control (74, 76, 78) and/or with the help of a circle diagram.

13. Operating unit according to claim 12, characterized in that the current
5 setting value of the slide control (74, 76, 78) is displayed on a scale of the slide control (74, 76, 78) with the aid of a scale pointer (80, 84), whereby the scale point (80, 84) can be shifted with the aid of an input device that can be increased and reduced in steps via graphical function keys (114, 116) given the representation of the setting value with the aid of figures of
10 the amount of the setting value, and that the amount of the setting value output with the aid of the circle diagram can be changed by shifting the position of a setting marker arranged on the circle diagram and/or via the input via graphical function keys (114, 116).
14. Operating unit according to any of the claims 10 through 13, characterized
15 in that the setting value of the second printing unit can be input with the aid of a user interface (64).
15. Operating unit according to any of the claims 10 through 14, characterized
20 in that a central operating unit is provided for the first printing unit and the second printing unit.
16. Operating unit according to any of the claims 10 through 15, characterized
25 in that each printing unit has a separate operating unit, whereby the setting value of the first printing unit and the setting value of the second printing unit can respectively be displayed and input on the operating unit of the first printing unit and the operating unit of the second printing unit.
17. Operating unit according to any of the claims 10 through 16, characterized
30 in that the setting value is represented as a bar or symbol graphic, whereby the setting value can be changed via a figure input and/or via graphical

function data, and whereby the bar or symbol graphic is changed dependent on the input value.

- 5 18. Operating unit according to any of the claims 10 through 17, characterized in that the amount of the setting value of the first printing unit can be changed dependent on the amount of the second printing unit.
- 10 19. Operating unit according to claim 18, characterized in that the setting value concerns the brightness, the contrast, the toner properties and/or the position marker shifting of the respective printing unit, whereby the position of the print image to be generated by the printing unit is established dependent on the position of the position marker on the carrier material.
- 15 20. Operating unit according to any of the claims 10 through 19, characterized in that, given a change of the amount of the setting value of the first printing unit, the amount of the setting value of the second printing unit is changed in the same manner, and that the amount of the setting value of the first printing unit is correspondingly changed given a change of the amount of the setting value of the second printing unit.
- 20 21. Operating unit according to claim 18, characterized in that the setting value concerns at least one parameter of the carrier material.
- 25 22. Operating unit according to any of the claims 10 through 21, characterized in that the first printing unit and the second printing unit are separate structural units.
- 30 23. Operating unit according to any of the claims 10 through 22, characterized in that the first printing unit and the second printing unit are coupled with one another such that the first printing unit generates a print image on the

front side of a carrier material and the second printing unit generates a print image on the back side of the carrier material, or whereby the first printing unit generates a print image on the front side of the carrier material and the second printing unit generates a second print image on the front side of the carrier material.

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24. Operating unit according to claim 23, characterized in that the type and/or color of the toner material with which the first printing unit generates a print image are different from the type and/or color of the toner material with which the second printing unit generates a print image.
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25. Operating unit according to one of the claims 23 or 24, characterized in that the carrier material is a continuous carrier material.
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26. Operating unit according to any of the claims 10 through 25, characterized in that the graphical user interface (10, 64, 100, 152) furthermore comprises a graphical representation of the same setting value of a third printing unit.
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27. Operating unit according to any of the claims 10 through 26, characterized in that the graphical user interface comprises a display element (154, 166) that signals the presence of print data still to be processed.
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28. Operating unit according to any of the claims 10 through 27, characterized in that a display element (60) is provided that displays at least one active print channel of the printer.
29. Operating unit according to claim 27 or 28, characterized in that the display element is a color-colored [sic] display field and/or a text output.
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30. Operating unit according to claim 29, characterized in that the display field contains a graphical symbol.

31. Operating unit according to claim 29 or 30, characterized in that the display field is arranged in a toolbar (12, 154) of the graphical user interface (10, 64, 100, 152), whereby the display field is colored in a low-contrast first color in a first operating state and, in a second operating state, is colored in a color significantly high-contrast relative to the surroundings of the display field.
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32. Graphical user interface for operation of an electrophotographic printing or copying system
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- with a graphical representation (74, 76, 78, 82, 122) of at least one setting value of a print image parameter or machine parameter of a first printing unit of the printing or copying system,
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- with the graphical representation (74, 76, 78, 82, 122) of the same setting value of a second printing unit of the printing or copying system,
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- whereby at least the amount of the setting value of the first printing unit can be input with the aid of the user interface (10, 64, 100, 152).
33. Method for operation of at least one electrophotographic printing or copying system,
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- in which at least one setting value of a print image parameter or machine parameter of a first printing unit of the printing or copying system is displayed via a graphical user interface (10, 64, 100, 152) with a graphical representation (74, 76, 78, 82, 122),

a graphical representation (74, 76, 78, 82, 122) of the same setting value of a second printing unit of the printing or copying system is displayed with the aid of the with the aid of the graphical user interface (10, 64, 100, 152),

5 and in which at least the setting value (74, 76, 78, 80 [sic], 122) of the first printing unit is input via a user input via the user interface (10, 64, 100, 152).

10 34. Method according to claim 33, characterized in that repeatedly-used setting values are stored by the operating unit, whereby these repeatedly-used setting values serve as scale values for division of a scale of a graphical slide control (74, 76, 78) or of a circle diagram.